

#13
Raw Sequence Lists
2-20-01 1632 PB

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/348,354A
DATE: 02/20/2001
TIME: 15:28:00
Input Set : A:\total sequence.ST25.txt
Output Set: N:\CRF3\02202001\I348354A.raw

3 <110> APPLICANT: Havenga, Menzo
4 Vogels, Ronald
5 Bout, Abraham
7 <120> TITLE OF INVENTION: CHIMERIC ADENOVIRUSES
9 <130> FILE REFERENCE: 2183-4123US
11 <140> CURRENT APPLICATION NUMBER: US 09/348,354A
12 <141> CURRENT FILING DATE: 1999-07-07
14 <160> NUMBER OF SEQ ID NOS: 84
16 <170> SOFTWARE: PatentIn version 3.0
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 35
20 <212> TYPE: DNA
21 <213> ORGANISM: Human Adenovirus Oligonucleotide
23 <400> SEQUENCE: 1
24 cccgtgtatc catatgatgc agacaacgac cgacc 35
27 <210> SEQ ID NO: 2
28 <211> LENGTH: 27
29 <212> TYPE: DNA
30 <213> ORGANISM: Human Adenovirus Oligonucleotide
32 <400> SEQUENCE: 2
33 cccgtctacc catatggcta cgcgccg 27
36 <210> SEQ ID NO: 3
37 <211> LENGTH: 27
38 <212> TYPE: DNA
39 <213> ORGANISM: Human Adenovirus Oligonucleotide
41 <400> SEQUENCE: 3
42 cckgtstacc catatgaaga tgaaagc 27
45 <210> SEQ ID NO: 4
46 <211> LENGTH: 31
47 <212> TYPE: DNA
48 <213> ORGANISM: Human Adenovirus Oligonucleotide
50 <400> SEQUENCE: 4
51 cccgtctacc catatgacac ctyctaact c 31
54 <210> SEQ ID NO: 5
55 <211> LENGTH: 36
56 <212> TYPE: DNA
57 <213> ORGANISM: Human Adenovirus Oligonucleotide
59 <400> SEQUENCE: 5
60 cccgtttacc catatgaccc atttgacaca tcagac 36
63 <210> SEQ ID NO: 6
64 <211> LENGTH: 30
65 <212> TYPE: DNA
66 <213> ORGANISM: Human Adenovirus Oligonucleotide
68 <400> SEQUENCE: 6
69 ccgatgcatt tattgttggg ctatatagg 30
72 <210> SEQ ID NO: 7
73 <211> LENGTH: 30

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Input Set : A:\total sequence.ST25.txt
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74 <212> TYPE: DNA
75 <213> ORGANISM: Human Adenovirus Oligonucleotide
77 <400> SEQUENCE: 7
78 ccgatgcatt yattcttggg cratata tagga 30
81 <210> SEQ ID NO: 8
82 <211> LENGTH: 36
83 <212> TYPE: DNA
84 <213> ORGANISM: Human Adenovirus Oligonucleotide
86 <400> SEQUENCE: 8
87 ccgatgcatt tattcttggg raatgtawga aaagga 36
90 <210> SEQ ID NO: 9
91 <211> LENGTH: 30
92 <212> TYPE: DNA
93 <213> ORGANISM: Human Adenovirus Oligonucleotide
95 <400> SEQUENCE: 9
96 ccgatgcatt cagtcatctt ctctgatata 30
99 <210> SEQ ID NO: 10
100 <211> LENGTH: 30
101 <212> TYPE: DNA
102 <213> ORGANISM: Human Adenovirus Oligonucleotide
104 <400> SEQUENCE: 10
105 ccgatgcatt tattgttcag ttatgttagca 30
108 <210> SEQ ID NO: 11
109 <211> LENGTH: 30
110 <212> TYPE: DNA
111 <213> ORGANISM: Human Adenovirus Oligonucleotide
113 <400> SEQUENCE: 11
114 gccatgcatt tattgttctg ttacataaga 30
117 <210> SEQ ID NO: 12
118 <211> LENGTH: 37
119 <212> TYPE: DNA
120 <213> ORGANISM: Human Adenovirus Oligonucleotide
122 <400> SEQUENCE: 12
123 ccgttaatta agcccttatt gttctgttac ataagaa 37
126 <210> SEQ ID NO: 13
127 <211> LENGTH: 30
128 <212> TYPE: DNA
129 <213> ORGANISM: Human Adenovirus Oligonucleotide
131 <400> SEQUENCE: 13
132 ccgatgcatt cagtcatctt ctwtaatata 30
135 <210> SEQ ID NO: 14
136 <211> LENGTH: 377
137 <212> TYPE: PRT
138 <213> ORGANISM: Human Adenovirus 8 Fiber Protein
140 <400> SEQUENCE: 14
142 Ser Cys Ser Cys Pro Ser Ala Pro Thr Ile Phe Met Leu Leu Gln Met
143 1 5 10 15
145 Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro Tyr
146 20 25 30

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148 Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe Val
 149 35 40 45
 151 Ser Ser Asn Gly Phe Gln Asn Phe Pro Pro Gly Val Leu Ser Leu Lys
 152 50 55 60
 154 Leu Ala Asp Pro Ile Thr Ile Asn Asn Gln Asn Val Ser Leu Lys Val
 155 65 70 75 80
 157 Gly Gly Gly Leu Thr Leu Gln Glu Glu Thr Gly Lys Leu Thr Val Asn
 158 85 90 95
 160 Thr Glu Pro Pro Leu His Leu Thr Asn Asn Lys Leu Gly Ile Ala Leu
 161 100 105 110
 163 Asp Ala Pro Phe Asp Val Ile Asp Asn Lys Leu Thr Leu Ala Gly
 164 115 120 125
 166 His Gly Leu Ser Ile Ile Thr Lys Glu Thr Ser Thr Leu Pro Gly Leu
 167 130 135 140
 169 Val Asn Thr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Thr Asp Leu
 170 145 150 155 160
 172 Ser Asn Asn Gly Gly Asn Ile Cys Val Arg Val Gly Glu Gly Gly
 173 165 170 175
 175 Leu Ser Phe Asn Asp Asn Gly Asp Leu Val Ala Phe Asn Lys Lys Glu
 176 180 185 190
 178 Asp Lys Arg Thr Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys Arg
 179 195 200 205
 181 Ile Asp Gln Asp Lys Asp Ser Lys Leu Ser Leu Val Leu Thr Lys Cys
 182 210 215 220
 184 Gly Ser Gln Ile Leu Ala Asn Val Ser Leu Ile Val Val Ala Gly Arg
 185 225 230 235 240
 187 Tyr Lys Ile Ile Asn Asn Asn Thr Asn Pro Ala Leu Lys Gly Phe Thr
 188 245 250 255
 190 Ile Lys Leu Leu Phe Asp Lys Asn Gly Val Leu Met Glu Ser Ser Asn
 191 260 265 270
 193 Leu Gly Lys Ser Tyr Trp Asn Phe Arg Asn Gln Asn Ser Ile Met Ser
 194 275 280 285
 196 Thr Ala Tyr Glu Lys Ala Ile Gly Phe Met Pro Asn Leu Val Ala Tyr
 197 290 295 300
 199 Pro Lys Pro Thr Thr Gly Ser Lys Lys Tyr Ala Arg Asp Ile Val Tyr
 200 305 310 315 320
 202 Gly Asn Ile Tyr Leu Gly Gly Lys Pro His Gln Pro Val Thr Ile Lys
 203 325 330 335
 205 Thr Thr Phe Asn Gln Glu Thr Gly Cys Glu Tyr Ser Ile Thr Phe Asp
 206 340 345 350
 208 Phe Ser Trp Ala Lys Thr Tyr Val Asn Val Glu Phe Glu Thr Thr Ser
 209 355 360 365
 211 Phe Thr Phe Ser Tyr Ile Ala Gln Glu
 212 370 375
 214 <210> SEQ ID NO: 15
 215 <211> LENGTH: 376
 216 <212> TYPE: PRT
 217 <213> ORGANISM: Human Adenovirus 9 Fiber Protein
 219 <400> SEQUENCE: 15

RAW SEQUENCE LISTING
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Input Set : A:\total sequence.ST25.txt
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221 Ser Cys Ser Cys Pro Ser Ala Pro Thr Ile Phe Met Leu Leu Gln Met
 222 1 5 10 15
 224 Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro Tyr
 225 20 25 30
 227 Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe Val
 228 35 40 45
 230 Ser Ser Asp Gly Phe Gln Asn Phe Pro Pro Gly Val Leu Ser Leu Lys
 231 50 55 60
 233 Leu Ala Asp Pro Ile Ala Ile Val Asn Gly Asn Val Ser Leu Lys Val
 234 65 70 75 80
 236 Gly Gly Gly Leu Thr Leu Gln Asp Gly Thr Gly Lys Leu Thr Val Asn
 237 85 90 95
 239 Ala Asp Pro Pro Leu Gln Leu Thr Asn Asn Lys Leu Gly Ile Ala Leu
 240 100 105 110
 242 Asp Ala Pro Phe Asp Val Ile Asp Lys Leu Thr Leu Leu Ala Gly His
 243 115 120 125
 245 Gly Leu Ser Ile Ile Thr Lys Glu Thr Ser Thr Leu Pro Gly Leu Ile
 246 130 135 140
 248 Asn Thr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Thr Glu Ser Thr
 249 145 150 155 160
 251 Asp Asn Gly Gly Ser Val Cys Val Arg Val Gly Glu Gly Gly Leu
 252 165 170 175
 254 Ser Phe Asn Asn Asp Gly Asp Leu Val Ala Phe Asn Lys Lys Glu Asp
 255 180 185 190
 257 Lys Arg Thr Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys Lys Ile
 258 195 200 205
 260 Asp Gln Asp Lys Asp Ser Lys Leu Thr Leu Val Leu Thr Lys Cys Gly
 261 210 215 220
 263 Ser Gln Ile Leu Ala Asn Val Ser Leu Ile Val Val Ala Gly Lys Tyr
 264 225 230 235 240
 266 Lys Ile Ile Asn Asn Asn Thr Gln Pro Ala Leu Lys Gly Phe Thr Ile
 267 245 250 255
 269 Lys Leu Leu Phe Asp Glu Asn Gly Val Leu Met Glu Ser Ser Asn Leu
 270 260 265 270
 272 Gly Lys Ser Tyr Trp Asn Phe Arg Asn Glu Asn Ser Ile Met Ser Thr
 273 275 280 285
 275 Ala Tyr Glu Lys Ala Ile Gly Phe Met Pro Asn Leu Val Ala Tyr Pro
 276 290 295 300
 278 Lys Pro Thr Ala Gly Ser Lys Tyr Ala Arg Asp Ile Val Tyr Gly
 279 305 310 315 320
 281 Asn Ile Tyr Leu Gly Lys Pro Asp Gln Pro Val Thr Ile Lys Thr
 282 325 330 335
 284 Thr Phe Asn Gln Glu Thr Gly Cys Glu Tyr Ser Ile Thr Phe Asp Phe
 285 340 345 350
 287 Ser Trp Ala Lys Thr Tyr Val Asn Val Glu Phe Glu Thr Thr Ser Phe
 288 355 360 365
 290 Thr Phe Ser Tyr Ile Ala Gln Glu
 291 370 375
 293 <210> SEQ ID NO: 16

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Input Set : A:\total sequence.ST25.txt
 Output Set: N:\CRF3\02202001\I348354A.raw

294 <211> LENGTH: 391
 295 <212> TYPE: PRT
 296 <213> ORGANISM: Human Adenovirus 13 Fiber Protein
 298 <220> FEATURE:
 W--> 299 <221> NAME/KEY: Xaa
 300 <222> LOCATION: (1)..(385)
 301 <223> OTHER INFORMATION: Can be any amino acid
 304 <400> SEQUENCE: 16
 W--> 306 Xaa Xaa Xaa Xaa Ser Ala Pro Thr Ile Phe Met Leu Leu Gln Met
 307 1 5 10 15
 W--> 309 Lys Arg Ala Arg Ser Ser Xaa Asp Thr Phe Asn Pro Val Tyr Pro Tyr
 310 20 25 30
 W--> 312 Gly Tyr Ala Arg Asn Gln Asn Ile Xaa Phe Xaa Thr Pro Pro Phe Val
 313 35 40 45
 W--> 315 Xaa Ser Asp Gly Phe Lys Asn Phe Pro Pro Gly Val Leu Ser Leu Lys
 316 50 55 60
 318 Leu Ala Asp Pro Ile Thr Ile Ala Asn Gly Asp Val Ser Leu Lys Val
 319 65 70 75 80
 321 Gly Gly Gly Leu Thr Leu Gln Glu Gly Ser Leu Thr Val Asp Pro Lys
 322 85 90 95
 324 Ala Pro Leu Gln Leu Ala Asn Asp Lys Lys Leu Glu Leu Val Tyr Asp
 325 100 105 110
 327 Asp Pro Phe Glu Val Ser Thr Asn Lys Leu Ser Leu Lys Val Gly His
 328 115 120 125
 330 Gly Leu Lys Val Leu Asp Asp Lys Ser Ala Gly Gly Leu Lys Asp Leu
 331 130 135 140
 333 Ile Gly Lys Leu Val Val Leu Thr Gly Lys Gly Ile Gly Ile Glu Asn
 334 145 150 155 160
 336 Leu Gln Asn Asp Asp Gly Ser Ser Arg Gly Val Gly Ile Asn Val Arg
 337 165 170 175
 339 Leu Gly Thr Asp Gly Gly Leu Ser Phe Asp Arg Lys Gly Glu Leu Val
 340 180 185 190
 342 Ala Trp Asn Arg Lys Asp Asp Arg Arg Thr Leu Trp Thr Thr Pro Asp
 343 195 200 205
 345 Pro Ser Pro Asn Cys Lys Ala Glu Thr Glu Lys Asp Ser Lys Leu Thr
 346 210 215 220
 348 Leu Val Leu Thr Lys Cys Gly Ser Gln Ile Leu Ala Thr Val Ser Ile
 349 225 230 235 240
 351 Ile Val Leu Lys Gly Lys Tyr Glu Phe Val Lys Lys Glu Thr Glu Pro
 352 245 250 255
 354 Lys Ser Phe Asp Val Lys Leu Leu Phe Asp Ser Lys Gly Val Leu Leu
 355 260 265 270
 357 Pro Thr Ser Asn Leu Ser Lys Glu Tyr Trp Asn Tyr Arg Ser Tyr Asp
 358 275 280 285
 360 Asn Asn Ile Gly Thr Pro Tyr Glu Asn Ala Val Pro Phe Met Pro Asn
 361 290 295 300
 363 Leu Lys Ala Tyr Pro Lys Pro Thr Lys Thr Ala Ser Asp Lys Ala Glu
 364 305 310 315 320
 366 Asn Lys Ile Ser Ser Ala Lys Asn Lys Ile Val Ser Asn Phe Tyr Phe

FYI

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/348,354A

DATE: 02/20/2001

TIME: 15:28:11

Input Set : A:\total sequence.ST25.txt

Output Set: N:\CRF3\02202001\I348354A.raw

L:299 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:679 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:986 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:1002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:1011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:1020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:1026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:1545 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:32
L:1558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:1561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:1570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:1585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:1706 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:34
L:1755 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:1791 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:35
L:1798 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:1840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:2241 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:41
L:2296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41